



Wood River/Amoco
1191150001 - Madison Co.
Subpart F

Amoco Petroleum Additives Company

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618-251-2200

Henry A. McCandless
Vice President, Manufacturing

November 21, 1984

Mr. Mark A. Haney, Manager
Compliance Monitoring Section
Division of Land Pollution Control
2200 Churchill Road
Springfield, Illinois 62706

EPA Region 5 Records Ctr.



360695

Gentlemen:

Groundwater Monitoring Data

Attached are the analyses of groundwater samples obtained at Amoco's Riverfront Lagoon site and Main Plant site. The EPA ID Numbers are ILD 980503106 and ILD 980700967, respectively.

Analyses from three different sampling dates are included. The first set is a resubmission of the final quarter data for wells B-1, H-37, H-40, H-41, R-1, R-2, R-3, and P-5. The samples were obtained March 29 and 30, 1984, and are being resubmitted on IEPA forms with additional information included. The second set is the semiannual analyses for the above stated wells collected June 26 and 27, 1984. As was agreed in the July 23, 1984, meeting with IEPA, this set of wells would be abandoned as RCRA monitors and would not be statistically evaluated for significant deterioration. Therefore, this will be the final sampling of the aforementioned wells. The third and final set of data is from the new series of wells identified as RL-1 through RL-10 for the Riverfront Lagoon site and RP-1 through RP-7 for the Main Plant site.

The analytical results for the old set of wells sampled June 26 and 27, 1984, showed no exceedances of the Primary Drinking Water Standards (PDWS). The results from the initial sampling of the new wells on August 27-29, 1984, indicated several parameters greater than the PDWS. Three wells exceeded the chromium standard, eight exceeded the fluoride limit and one sample was high in nitrate. The total radium and gross alpha in two wells were greater than the PDWS limit. The gross beta standard was exceeded in one well and fecal coliform was greater than the PDWS for ten wells. All analyses are detailed in the following pages.

No pesticides or herbicides were found to be greater than the following drinking water standards:

Endrin	-	0.0002	mg/l
Lindane	-	0.004	mg/l
Methoxychlor	-	0.1	mg/l
Toxaphene	-	0.005	mg/l
2, 4 - D	-	0.1	mg/l
2, 4, 5 - TP Silvex	-	0.01	mg/l

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Amoco Petroleum Additives Company

Post Office Box 182
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618 251-2200

Henry A. McCandless
Vice President, Manufacturing

October 18, 1984

119 115 AAA

Jeff Benbenek
Division of Air Pollution Control
Illinois Environmental Protection Agency
115A West Main Street
Collinsville, Illinois 62234

Dear Sir:

Report of Excessive Emission

On October 12, 1984, at 12:20 A.M., an excessive hydrocarbon emission occurred at the Polypropylene Unit. The episode was the result of a pressure-relief valve opening and venting to the unit flare. The line from the relief valve to an intermediate knockout drum developed a leak from either thermal shock due to rapid vaporization of the propane/propylene or excessive line pressure. A propane/propylene vapor cloud was released through the leak. Plant fire crews were called to the scene to disperse the vapor and minimize potential danger to the plant. Local Wood River authorities responded to protect life and property in the adjacent residential areas. By 1 A.M., the situation had been stabilized.

The quantity of propane/propylene passing through the relief valve is estimated to be 4,600 lbs. Some of the material was incinerated in the flare, while the remainder was emitted through the line leak. The proportion passing through each source is unknown.

The major action that has been taken to prevent a similar episode is inspection of flare-line wall thickness and replacement of deficient sections.

If you have further questions relating to this incident, please contact R. A. Sumner at (618)-251-2228.

Yours truly,

Henry A. McCandless

RAS/sjd

CC: DAPC CENTRAL FILE
REGION III, DAPC

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Environmental Protection Agency

OCT 22 1984

115A W. MAIN ST.
COLLINSVILLE, ILL.